

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P452078

Luminaire Tested: **GALN-SA3A-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10186 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

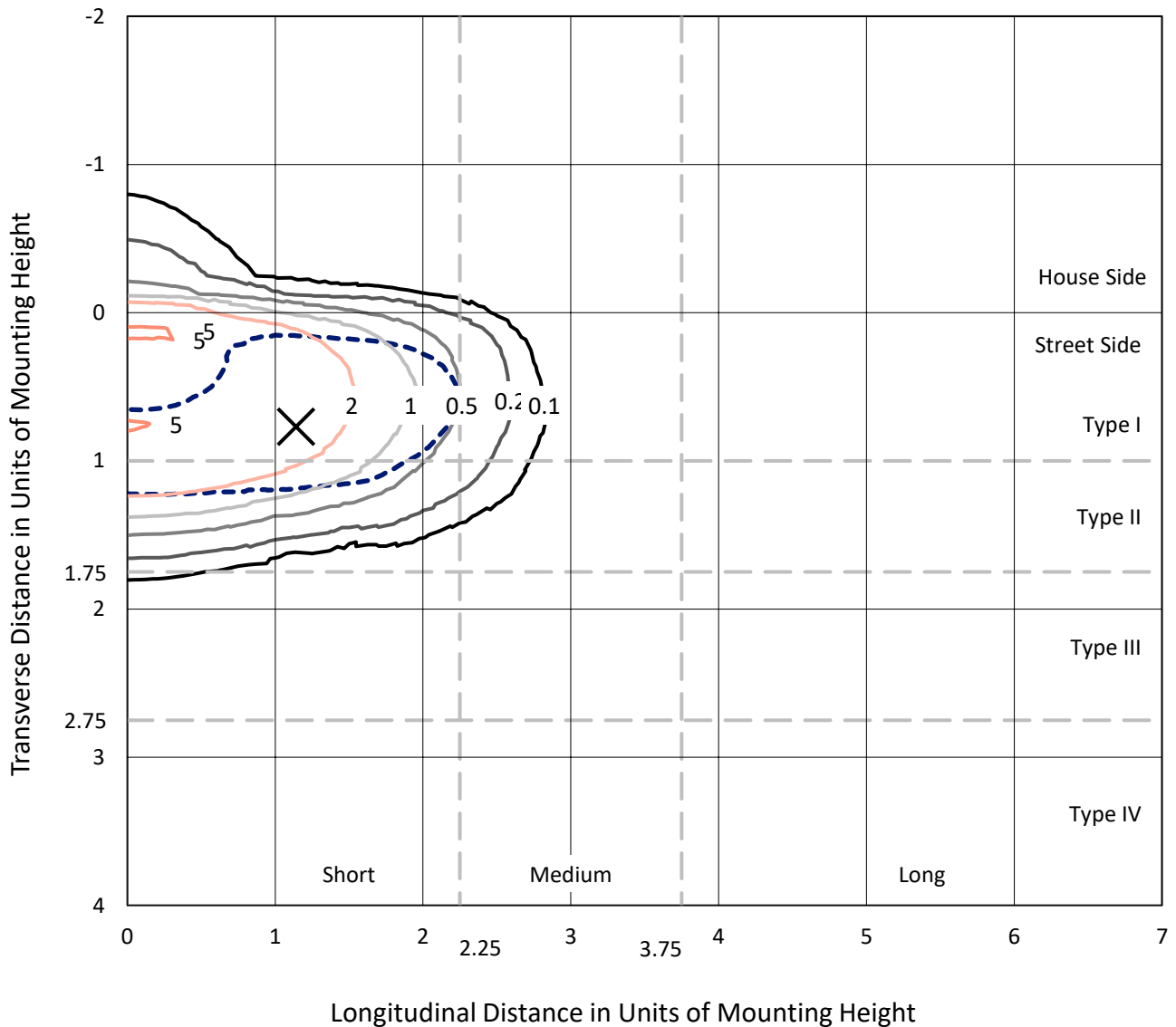
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452078
 CATALOG NUMBER: GALN-SA3A-730-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

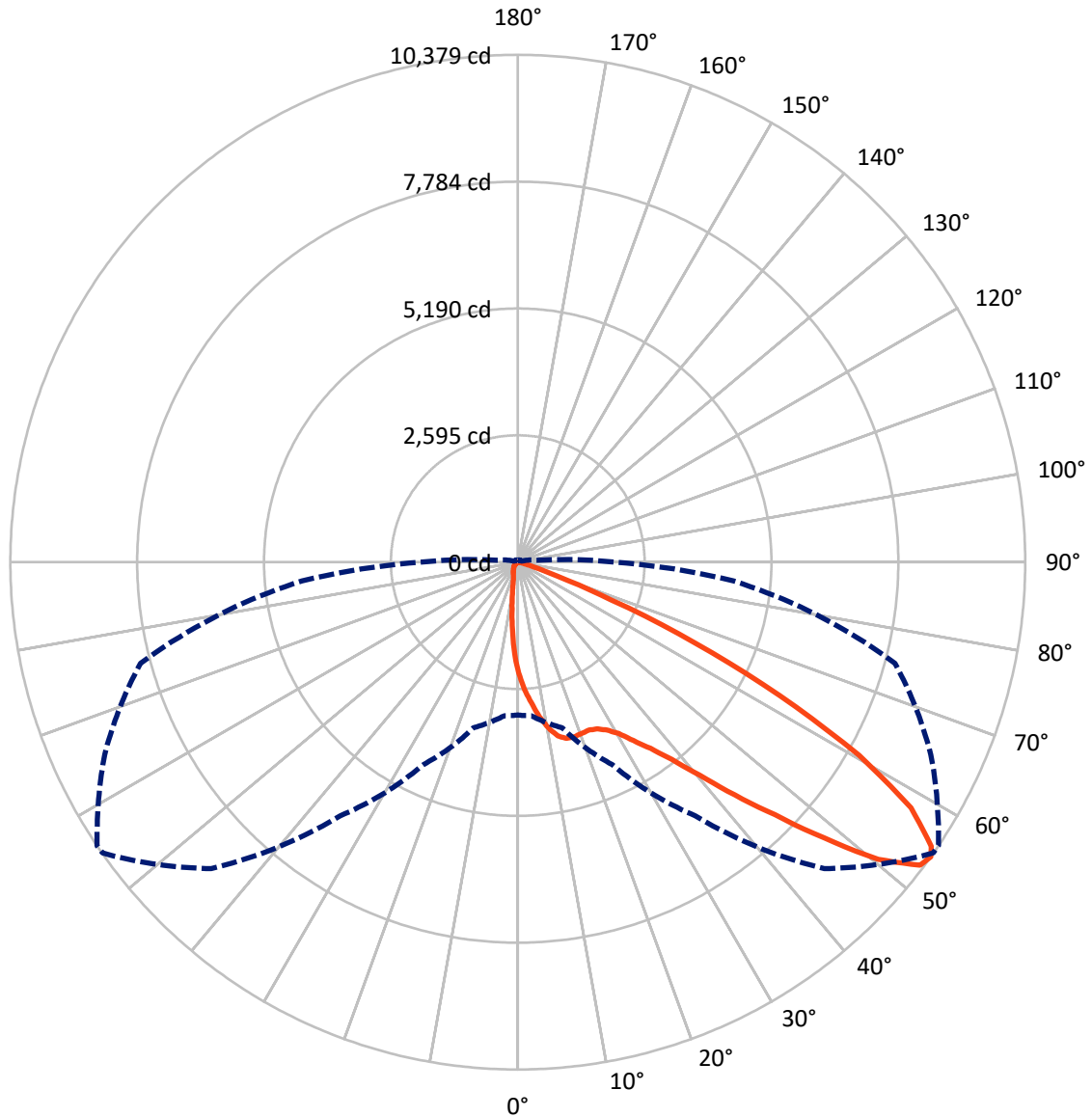
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P452078
CATALOG NUMBER: GALN-SA3A-730-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P452078

CATALOG NUMBER: GALN-SA3A-730-U-AFL-HSS

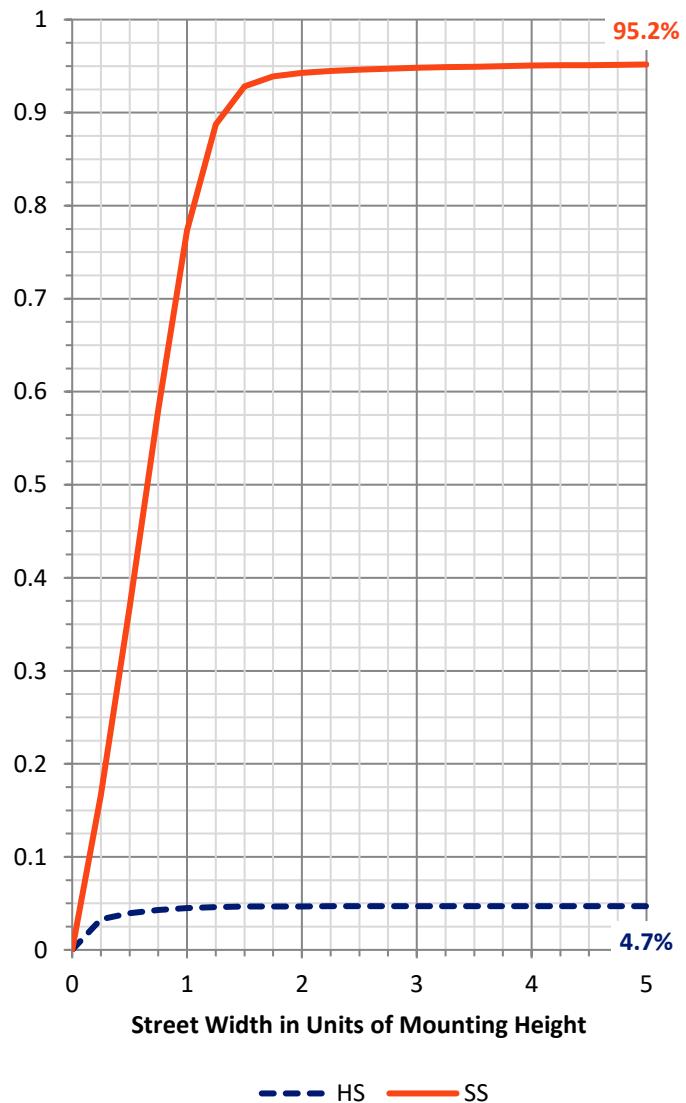
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	481.7	0.0	481.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	9704.3	0.0	9704.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	10186.0	0.0	10186.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	2.0
10°-20°	540.6	5.3
20°-30°	936.3	9.2
30°-40°	1616.2	15.9
40°-50°	2750.8	27.0
50°-60°	2722.2	26.7
60°-70°	1242.5	12.2
70°-80°	159.6	1.6
80°-90°	18.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10186.0	100.0
0°-180°	10186.0	100.0



REPORT NUMBER: P452078

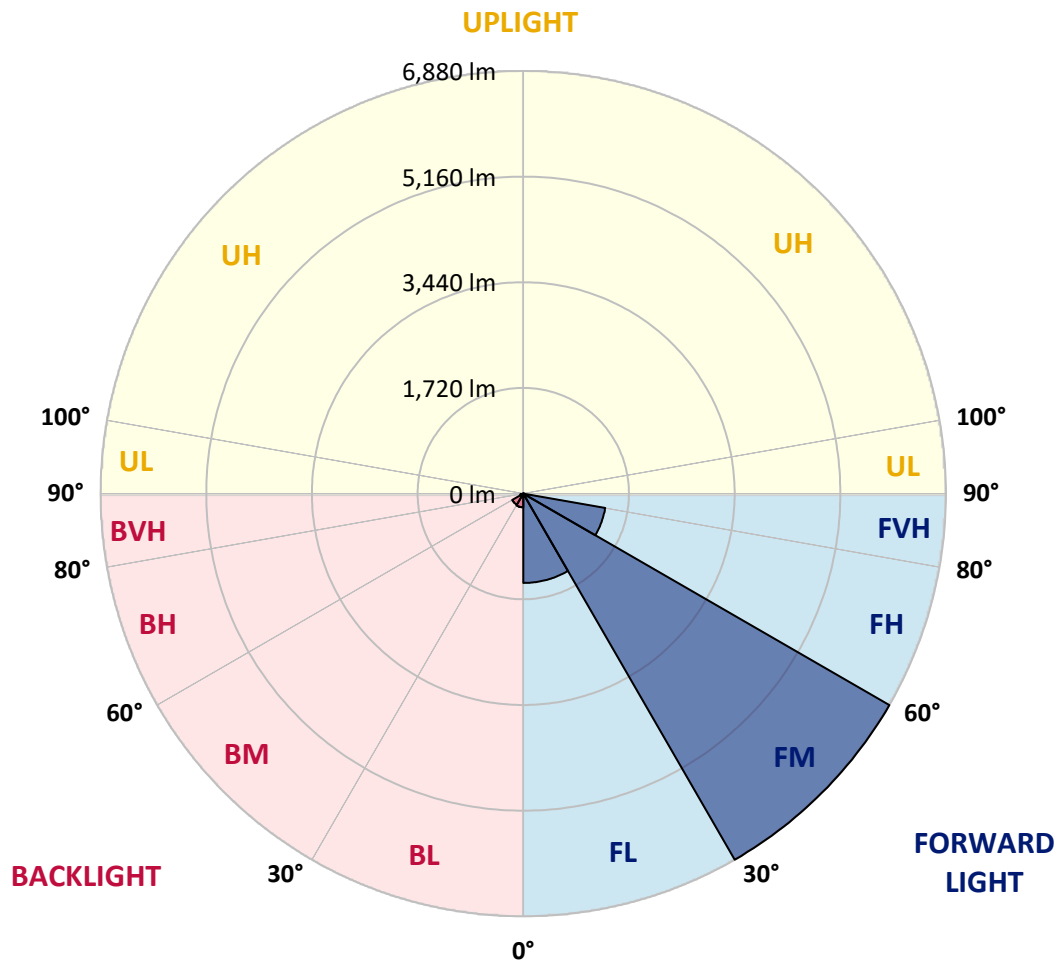
CATALOG NUMBER: GALN-SA3A-730-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.1	14.3			
FM (30°-60°)	6880.4	67.5			
FH (60°-80°)	1353.8	13.3			G1/1800
FVH (80°-90°)	16.1	0.2			G1/100
BL (0°-30°)	222.8	2.2	B1/500		
BM (30°-60°)	208.8	2.0	B0/220		
BH (60°-80°)	48.2	0.5	B0/110		G0/110
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P452078

CATALOG NUMBER: GALN-SA3A-730-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0
2.5°	2876.0	2856.1	2828.6	2807.3	2757.2	2685.0	2608.7	2608.7	2535.2	2432.8	2328.3
5°	3317.2	3304.2	3277.4	3222.4	3166.1	3065.0	2911.8	2885.0	2753.7	2568.2	2373.0
7.5°	3496.6	3502.8	3504.2	3489.7	3462.9	3363.3	3211.4	3192.9	2983.2	2734.5	2431.4
10°	3324.8	3355.0	3384.6	3444.4	3528.9	3553.0	3467.1	3447.8	3241.6	2902.8	2494.6
12.5°	3069.2	3085.6	3102.1	3196.3	3366.0	3560.5	3650.5	3649.9	3475.3	3070.5	2575.0
15°	2950.3	2964.7	2966.1	3008.0	3155.1	3438.2	3728.9	3739.2	3703.5	3277.4	2661.6
17.5°	2975.0	2986.7	2977.1	2987.4	3064.3	3303.5	3720.0	3754.3	3888.3	3476.0	2740.0
20°	3136.5	3159.2	3122.1	3093.2	3116.6	3267.8	3689.7	3737.8	4018.9	3669.8	2811.4
22.5°	3426.5	3438.9	3392.1	3313.1	3271.9	3342.7	3681.5	3728.9	4130.2	3828.5	2852.7
25°	3748.8	3744.7	3693.2	3604.5	3517.9	3493.9	3735.8	3778.4	4222.3	3971.5	2865.0
27.5°	4071.1	4083.5	3996.9	3887.0	3783.2	3720.6	3857.4	3889.0	4326.1	4134.4	2880.2
30°	4445.7	4425.7	4340.5	4214.8	4095.9	4008.6	4053.3	4062.2	4469.0	4350.1	2920.0
32.5°	4932.9	4877.9	4782.4	4562.5	4477.3	4329.5	4340.5	4351.5	4642.9	4563.9	2968.1
35°	5594.0	5591.3	5404.3	5108.2	4900.6	4717.1	4669.0	4677.9	4906.1	4881.4	3074.7
37.5°	6389.8	6400.8	6187.8	5889.5	5507.4	5216.0	5117.1	5118.5	5306.1	5319.8	3236.8
40°	7037.9	7066.7	6939.6	6738.3	6361.0	5905.3	5739.0	5723.9	5868.2	5851.0	3468.4
42.5°	7316.9	7343.7	7391.1	7461.2	7253.7	6877.8	6485.4	6506.0	6550.0	6429.7	3728.2
45°	7180.1	7222.7	7409.0	7841.9	8037.1	7910.7	7442.7	7370.5	7184.3	7058.5	3989.3
47.5°	6610.4	6714.2	7025.5	7746.4	8429.5	8857.0	8523.0	8427.5	7819.3	7517.6	4155.7
50°	5673.7	5679.9	6113.6	7035.1	8226.1	9454.2	9626.0	9554.5	8411.0	7775.3	4239.5
52.5°	4113.0	4248.4	4645.7	5712.9	7345.1	9363.5	10329.0	10299.5	9021.2	7907.2	4360.5
54°	3126.9	3153.0	3506.2	4565.2	6332.8	8865.2	10372.3	10379.2	9324.3	7986.9	4431.9
55°	2563.4	2500.8	2871.9	3889.0	5642.1	8424.7	10230.7	10263.7	9460.4	8028.2	4484.8
57.5°	1215.0	1215.7	1499.5	2051.4	3533.7	6541.7	9365.5	9482.3	9475.5	8099.0	4647.7
60°	615.1	619.2	681.7	947.0	1745.6	4348.8	7743.7	8022.0	8746.3	8109.3	4701.3
62.5°	430.2	425.4	415.1	455.6	734.6	2210.1	5765.1	6007.0	7431.0	7716.9	4530.9
65°	368.4	358.0	329.2	323.0	371.1	880.3	3590.8	3985.2	5673.7	6681.9	4045.7
67.5°	314.7	310.6	284.5	268.7	262.5	383.5	1852.8	2060.3	3878.0	4803.0	3064.3
70°	267.3	265.3	249.5	229.5	212.4	229.5	687.2	851.5	2161.3	2586.0	1445.9
72.5°	217.2	219.2	222.0	196.5	178.7	162.9	293.4	341.6	904.4	924.3	505.8
75°	190.4	188.3	188.3	171.1	149.1	121.0	161.5	173.9	277.0	257.0	117.5
77.5°	134.0	129.2	151.2	140.9	124.4	85.9	92.1	97.6	114.8	98.3	55.0
80°	92.8	92.8	96.9	126.4	112.0	62.5	56.4	60.5	68.0	58.4	31.6
82.5°	52.2	53.6	63.2	67.3	65.3	41.9	37.1	37.8	45.4	39.9	19.9
85°	6.2	10.3	36.4	35.7	26.8	18.6	20.6	21.3	28.2	24.7	11.7
87.5°	0.7	1.4	7.6	9.6	6.9	7.6	7.6	7.6	9.6	11.0	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452078

CATALOG NUMBER: GALN-SA3A-730-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0	2263.0
2.5°	2272.0	2219.7	2095.4	1951.0	1858.9	1709.1	1582.7	1491.3	1468.6	1424.6	1437.7
5°	2269.2	2160.6	1907.1	1639.0	1353.1	1140.1	981.4	856.3	801.3	764.9	739.5
7.5°	2270.6	2100.9	1694.0	1267.2	925.7	716.8	569.7	493.4	442.6	421.3	424.0
10°	2274.7	2033.5	1446.6	938.8	624.7	463.2	373.2	336.7	319.6	316.8	316.1
12.5°	2284.3	1960.0	1210.2	696.8	437.1	336.7	302.4	290.0	284.5	284.5	282.5
15°	2294.6	1878.9	1013.7	518.2	336.7	289.3	273.5	267.3	263.9	263.9	263.2
17.5°	2294.6	1785.4	830.2	402.0	290.0	266.0	253.6	245.3	242.6	242.6	241.9
20°	2280.2	1676.8	667.3	323.7	263.2	244.0	231.6	222.7	219.2	217.9	217.2
22.5°	2230.0	1531.8	531.2	278.3	241.2	224.7	208.9	198.6	195.9	194.5	195.2
25°	2140.7	1368.3	420.6	244.7	221.3	201.4	187.6	180.1	177.3	177.3	178.0
27.5°	2048.6	1197.1	333.3	219.2	197.2	179.4	168.4	163.6	162.9	164.9	165.6
30°	1963.4	1025.3	270.1	198.6	175.9	160.8	153.3	151.9	151.9	152.6	153.3
32.5°	1868.6	874.8	226.1	180.7	158.7	145.7	141.6	141.6	142.9	142.9	144.3
35°	1808.8	745.6	198.6	163.6	145.7	134.7	131.9	132.6	134.7	137.4	138.8
37.5°	1776.5	642.6	180.7	149.8	133.3	125.8	123.0	124.4	129.2	134.0	134.7
40°	1779.2	564.9	166.3	138.1	123.7	115.5	113.4	117.5	122.3	127.1	127.8
42.5°	1809.5	507.2	152.6	124.4	115.5	103.8	103.1	107.2	109.3	114.1	114.8
45°	1845.2	465.3	138.1	110.0	100.3	90.0	90.7	94.2	96.9	104.5	105.8
47.5°	1856.2	436.4	121.6	93.5	82.5	79.0	79.7	81.8	87.3	94.2	94.8
50°	1868.6	418.5	105.8	79.0	70.1	69.4	70.1	71.5	74.9	77.7	77.0
52.5°	1921.5	417.8	92.8	68.7	59.8	61.2	61.9	61.2	58.4	54.3	52.9
54°	1971.0	419.9	86.6	63.9	55.0	57.0	56.4	52.9	46.0	41.9	39.9
55°	2010.8	422.0	83.2	60.5	52.2	52.9	53.6	46.7	37.8	33.7	32.3
57.5°	2089.2	417.1	74.9	52.9	46.0	43.3	42.6	30.9	20.6	17.9	16.5
60°	2050.0	376.6	68.0	45.4	39.2	35.0	28.9	17.2	10.3	7.6	7.6
62.5°	1896.1	319.6	60.5	37.1	32.3	26.8	15.1	9.6	4.8	2.7	2.1
65°	1696.1	268.7	54.3	29.6	25.4	17.2	8.2	6.2	2.1	0.0	0.0
67.5°	1261.1	199.3	46.0	23.4	19.2	11.0	5.5	3.4	0.7	0.0	0.0
70°	584.1	121.6	39.2	17.9	13.7	8.2	4.1	2.1	0.0	0.0	0.0
72.5°	167.7	76.3	32.3	13.1	9.6	6.9	3.4	1.4	0.7	0.0	0.0
75°	58.4	61.2	24.1	9.6	7.6	4.8	2.7	1.4	0.7	0.0	0.0
77.5°	35.0	49.5	15.1	8.2	6.2	4.1	2.7	1.4	0.7	0.7	0.0
80°	19.9	33.0	9.6	6.9	5.5	3.4	2.1	1.4	0.7	0.7	0.0
82.5°	11.0	15.8	7.6	6.2	4.8	3.4	2.1	1.4	0.7	0.7	0.7
85°	8.9	8.2	6.2	5.5	4.1	2.7	2.1	0.7	0.0	0.0	0.0
87.5°	6.9	5.5	5.5	5.5	4.1	2.7	2.1	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)